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WHAT IS CLAIMED IS:

1. A heating apparatus comprising:

a heat generation member for generating heat using magnetic flux;

5 a coil for generating the magnetic flux by electric power supply thereto, said coil being disposed in said heat generation member,

wherein a material to be heated is fed and introduced in a heating portion of said heat generation member to heat an image on the material to be heated by heat generated by said heat generation member;

10 a movable member which is movable in said heat generation member;

15 a rotatable drive transmission member for transmitting a driving force to said movable member,

wherein said drive transmission member has a hollow rotation shaft, and a supply line for supplying the electric power is connected to said coil through the hollow rotation shaft.

20 2. An apparatus according to Claim 1, further comprising a magnetic flux adjusting means having a magnetic flux adjustment member for changing a density distribution of the magnetic flux actable on said heat generation member with respect to a direction perpendicular to a feeding direction of the material

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to be heated, wherein said magnetic flux adjusting means drives said drive transmission member to move said magnetic flux adjustment member to change the density distribution with respect to the direction perpendicular to the feeding direction.

3. An apparatus according to Claim 2, wherein said magnetic flux adjustment member includes a magnetic flux shield member for shielding a part of the magnetic flux, wherein said magnetic flux shield member has a shield portion corresponding to a width of the material to be heated, and said magnetic flux adjusting means drives said magnetic flux shield member corresponding to a width of the material to be heated to shield the magnetic flux at a non-feeding portion for the material to be heated.

4. An apparatus according to Claim 3, further comprising a holding member for holding said coil, wherein each of opposite ends of said holding member with respect to a rotational axis of said heat generating element is provided with a supporting portion for supporting said holding member, and wherein at least one of said supporting portions has a hollow supporting portion for permitting the supply line to extend out, and wherein said drive transmission member is supported through said hollow

supporting portion, and said supply line is extended out through said hollow supporting portion.

5 5. An apparatus according to Claim 4, wherein said magnetic flux adjustment member is rotatably mounted on said holding member, and said holding member and magnetic flux adjustment member are unified into an assembly.

10 6. An apparatus according to Claim 3, wherein said supply line is extended out at one end of said heat generating element with respect to the rotational axis, and an end of said holding portion opposite said one end is tapered.

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